



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



CLASS 8

SUBJECT – Algebra and Geometry

Work sheet 2

Marks:15

SPECIAL TYPES OF QUADRILATERALS

Date: 8.4.2020

Answer all the following questions(1×15=15)

1. In which of the following figures are the diagonals equal?
 - a) parallelogram
 - b) Rhombus
 - c) trapezium
 - d) rectangle

2. If the diagonals of a quadrilateral bisect each other at right angles, then the figure is a
 - a) rectangle
 - b) trapezium
 - c) rhombus
 - d) none of these

3. ABCD is a parallelogram with two adjacent angles equal, then the parallelogram is a
 - a) rhombus
 - b) kite
 - c) rectangle
 - d) none of these

4. The bisectors of two adjacent angles of A parallelogram intersect at
 - a) 30°
 - b) 45°
 - c) 60°
 - d) 90°

5. If an angle of A parallelogram is two-third of its adjacent angle, the smallest angle of the parallelogram is
 - a) 108°
 - b) 54°
 - c) 72°
 - d) 81°

6. If one angle of a parallelogram is 24° less than twice the smallest angle, then the largest angle of the parallelogram is
- 68°
 - 102°
 - 112°
 - 136°
7. ABCD is a parallelogram in which angle $BDC=45^\circ$ and angle $BAD=75^\circ$. Then angle $CBD=?$
- 45°
 - 55°
 - 60°
 - 75°
8. Which of the following is not true for a parallelogram?
- opposite sides are equal
 - opposite angles are equal
 - opposite angles are bisected by the diagonals
 - diagonals bisect each other
9. Two equilateral triangles share a common side. Which quadrilateral does the figure form?
- square
 - rectangle
 - rhombus
 - kite
10. The diagonals of a quadrilateral are congruent and perpendicular bisectors of each other. Name the quadrilateral
- rhombus
 - rectangle
 - trapezium
 - square
11. Name the figure whose diagonals do not bisect at 90°
- square
 - rectangle
 - rhombus
 - trapezium
12. In parallelogram ABCD, AC and BD intersect at O. If $AC = 13.4$ cm, then OC is
- 6.7cm
 - 13.4cm
 - 6 cm
 - none of these

13. What would you call a figure having four sides out of which two opposite sides are parallel?
- a) square
 - b)kite
 - c) rhombus
 - d)trapezium
14. Isosceles trapezium has
- a) non parallel sides equal
 - b) parallel sides equal
 - c) non parallel sides unequal
 - d) none of these
15. A quadrilateral in which two pairs of adjacent sides are equal is
- a) trapezium
 - b) kite
 - c) square
 - d) rhombus

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